

B1 *New matter*
nucleic acid of said PS128 gene and] has at least [50%] 90% identity over the entire length of [with] a sequence selected from the group consisting of [(a)] SEQUENCE ID NO 1, position 4-269 of SEQUENCE ID NO 2, SEQUENCE ID NO 3, postion 1-276 of SEQUENCE ID NO 4, position 1-276 of SEQUENCE ID NO 5, and complements thereof [, and (b) fragments of SEQUENCE ID NO 1, and SEQUENCE ID NO 2, and SEQUENCE ID NO 3].

B2
4. (Amended) The purified polynucleotide of claim 1, wherein said polynucleotide comprises a sequence encoding at least one [PS128] epitope. *3 et*

5. A recombinant expression system comprising a nucleic acid sequence that includes an open reading frame [derived from PS128] operably linked to a control sequence compatible with desired host, wherein said nucleic acid sequence has at least [50%] 90% identity over the entire length of [with] a sequence selected from the group consisting of SEQUENCE ID NO 1, , position 4-269 of SEQUENCE ID NO 2, SEQUENCE ID NO 3, position 1-276 of SEQUENCE ID NO 4, postion 1-276 of SEQUENCE ID NO 5, and [fragments or] complements thereof.

11. (Amended) A cell transfected with a nucleic acid sequence encoding at least one [PS128] epitope, wherein ^{the} nucleic acid sequence is selected from the group consisting of SEQUENCE ID NO 1, position 4-269 of SEQUENCE ID NO 2, SEQUENCE ID NO 3, postion 1-276 of SEQUENCE ID NO 4, postion 1-276 of SEQUENCE ID NO 5, and [fragments or] complements thereof.

B3
12. (Amended) A method for producing a polypeptide comprising at least one [PS128] epitope, said method comprising incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide, wherein said polypeptide comprises an amino acid sequence having at least [60%] 90% identity over the entire length of an [with] amino acid sequence selected from the group consisting of SEQUENCE ID NO 12, SEQUENCE ID NO 13, and SEQUENCE ID NO 14 [, and fragments thereof].

B4 15. (Amended) A composition of matter comprising a purified [PS128] polynucleotide [or fragment thereof,] wherein said polynucleotide has at least [50%] 90% identity over the entire length of [with] with a sequence selected from the group consisting of [(a)] SEQUENCE ID NO 1, SEQUENCE ID NO 3, position 4-269 of SEQUENCE ID NO 2, position 1-276 of SEQUENCE ID NO 4, position 1-276 of SEQUENCE ID NO 5, and complements thereof [, and (b) fragments of SEQUENCE ID NO 1, SEQUENCE ID NO 2, and SEQUENCE ID NO 3].

18. A purified polynucleotide [gene, or fragment thereof,] comprising DNA having at least [50%] 90% identity over the entire length of [with] SEQUENCE ID NO 4 or SEQUENCE ID NO 5.

Please add the following new claims:

19. (new) A purified polynucleotide, wherein said polynucleotide has at least 90% identity over the entire length of a sequence selected from the group consisting of SEQUENCE ID NO 1, SEQUENCE ID NO 2, SEQUENCE ID NO 3, SEQUENCE ID NO 4, SEQUENCE ID NO 5, and complements thereof.

B5 20. (new) A recombinant expression system comprising a nucleic acid sequence that includes an open reading frame operably linked to a control sequence compatible with desired host, wherein said nucleic acid sequence has at least 90% identity over the entire length of a sequence selected from the group consisting of SEQUENCE ID NO 1, SEQUENCE ID NO 2, SEQUENCE ID NO 3, SEQUENCE ID NO 4, SEQUENCE ID NO 5, and complements thereof.

21. (new) (Amended) A cell transfected with a nucleic acid sequence encoding at least one epitope, wherein nucleic acid sequence is selected from the group consisting of SEQUENCE ID NO 1, SEQUENCE ID NO 2, SEQUENCE ID NO 3, SEQUENCE ID NO 4, SEQUENCE ID NO 5, and complements thereof.

REMARKS